25X1

25X1

25X1

25X1

	SIGNET	057/4
	Copy 6 of 6	25X1
	6 November 1963	
MEMORANDI	JM FOR THE RECORD	
SUBJECT:	Preliminary Results of KEMPSTER Technique Analysis	25X
1.		
and the t	analysis of the KEMPSTER technique.	
couple of	Because the report will be in hand in a weeks, only the outstanding items will be in this memorandum.	25X1
that the	. Electron cloud rise time: reports computer analysis of the electron cloud rise	
time is a	t worst, I microsecond. Undertainties in the data, including that, on attachment and	
neutral :	at of the electron to atoms, principally and excited oxygen atoms, might make the	
or speci:	cloud rise time lower by a factor of 10 fically 0.1 microsecond. For purposes of B, the pulsed version, the latter figure	
is the mo	ore desirable, but we could live with the	
	figure of 0.1 microsecond cloud rise time was deduced several months independent "bracketing calculation" by the med.	
	Optimization of the KEMPSTER B technique by studies show that the pulsed electron cloud bably be most effective between the range	
L		
	w(s) completed. ─•	25X1
GROUP 1 Excluded from automat downgrading and declassification	SECRET	
Approv	ed For Release 2004/05/12 : CIA-RDP63-00313A000500140062-4	-

Villa Januari

6. Optimization studies also show that the most effective composition of the plasma electron cloud will be made up of about three primary electron energies, namely: 15 Kev., 50 Kev., and 200 Kev.

7. At this writing, the optimization requirements of paragraph 6, above, are believed to be readily produced by KEMPSTER B.

of retaining and his assistant, so that they could analyse the experimental results independently

Engineering and Analysis Division (Special Activities)

25X1

25X1

25X1

25X1

25X1

25X1

25X1

EAD/OSA (thru ADD/S&T)

2 - AD/OSA

3 - D/TECH/OSA

4 - CD/OSA

5 - RAD/OSA chrono

6 - RB/OSA

Circuit in